GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:5
ANSWERED ON:02.02.2017
Development of Aquifers under PMKSY
Gogoi Shri Gaurav

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) the total number of aquifer systems in the country along with their categories, State-wise;

(b) whether there is any proposal for the development of aquifers, if so, the details thereof; and

(c) whether the Government allocates funds for the development of aquifers under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY), if so, the details thereof

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

(DR. SANJEEV KUMAR BALYAN)

(a) Central Ground Water Board (CGWB) has prepared Aquifer Systems of India - 2012, according to which, the Country has been sub-divided/categorized into 14 principal aquifer systems, based on their hydro-geological characteristics. These 14 aquifer systems are : (i) Alluvium, (ii) Laterite, (iii) Basalt, (iv) Sandstone, (v) Shale, (vi) Limestone, vii) Granite, viii) Schist ix) Quartzite, x) Charnockite, xi) Khondalite, xii) Banded Gneissic Complex (BGC), xiii) Gneiss and xiv) Intrusives. Categorization of predominant type of aquifer systems delineated in each State is given at Annexure.

(b) CGWB has taken up National Programme on Aquifer Mapping and Management (NAQUIM) during XII Plan, a part of the programme includes preparation of aquifer maps and management plans. The management plans, inter-alia, include suggestions for development of aquifers in specific areas.

(c) Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) has been launched in 2015-16 to serve as a platform for convergence of investments in irrigation through comprehensive District and State irrigation plans. It envisages end to end solution in irrigation supply chain viz. water resources, distribution, efficient application and extension services.
PMKSY(Per Crop More Drop) and PMKSY (Watershed Development Component) focus on micro-level storage structure and moisture conservation/water harvesting structures respectively.
Further, this Ministry is working in convergence with the Ministry of Rural Development to work in a focused manner for recharge of the over-exploited blocks under Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA); Department of Land Resources for Watershed Management; and Ministry of Agriculture & Farmers Welfare under the PMKSY for optimal use of available water resources.
Water conservation, water harvesting and watershed management works and micro & minor irrigation works are permitted in MGNREGA programme of the Ministry of Rural Development. During the current Financial Year (2016-17), 139770 micro irrigation works have been completed, 178852 micro irrigation works are on-going with an expenditure of Rs. 228442.59 lakhs. 674403 works in respect of water conservation and water harvesting have been completed and 753383 works are on-going with an expenditure of Rs. 729182.70 lakhs under the MGNREG Scheme.

ANNEXURE
Annexure referred in reply to Lok Sabha Unstarred Question No. 5 dated 02.02.2017 regarding "Development of Aquifers under PMKSY"

S.No. State Predominant Lithology
(Principal Aquifer System)
1 Andaman & Nicobar Island Mixed Aquifer System
2 Andhra Pradesh BGC + Shale+ Sandstone+ Alluvium
3 Arunachal Pradesh Shale + Granite + Mixed Aquifer System
4 Assam Alluvium
5 Bihar Alluvium
6 Chandigarh Alluvium
7 Chhattisgarh BGC+ Sandstone+ Gneiss+ Shale+ Limestone
8 Dadra & Nagar Haveli Basalt
9 Daman & Diu Basalt + Mixed Aquifer System
10 Delhi Alluvium
11 Goa Laterite + Schist
12 Gujarat Basalt + Alluvium
13 Haryana Alluvium

14 Himachal Pradesh Schist + Sandstone + Limestone
15 Jammu & Kashmir Sandstone + Granite + Shale + Alluvium
16 Jharkhand BGC + Schist + Alluvium
17 Karnataka BGC + Basalt + Schist
18 Kerala Charnokites + Gneiss + Alluvium
19 Lakshwadeep Mixed Aquifer System
20 Madhya Pradesh Basalt + Sandstone + Alluvium + BGC
21 Maharashtra Basalt
22 Manipur Shale + Sandstone
23 Meghalaya Shale + BGC
24 Mizoram Shale
25 Nagaland Shale + Sandstone
26 Odisha BGC + Alluvium + Charnokite + Khondalite
27 Puducherry Alluvium
28 Punjab Alluvium
29 Rajasthan Alluvium + Sandstone
30 Sikkim Gneiss + Schist
31 Tamil Nadu Gneiss + Charnokite + Alluvium
32 Telengana BGC + Shale+ Sandstone+ Alluvium
33 Tripura Sandstone + Shale
34 Uttar Pradesh Alluvium
35 Uttarakhand Schist+ Alluvium+ Quartzite+ Gneiss+ BGC
36 West Bengal Alluvium
BGC Banded Gneissic Complex
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